

**ABSTRACT**

A throughdrying process and system for the manufacture of a tissue web conveys a fibrous web of cellulose fibers through a throughhair drying station that includes one or more throughhair dryers. The throughhair drying station is supplied with a heated drying medium from a source. After drying the web, the drying medium is conducted away from the throughhair drying station as moisture laden exhaust air that is collected, dried, and at least partially recirculated back to the throughhair drying station as a supplement to the source of heated drying medium, thereby reducing the load on the heated drying medium source.